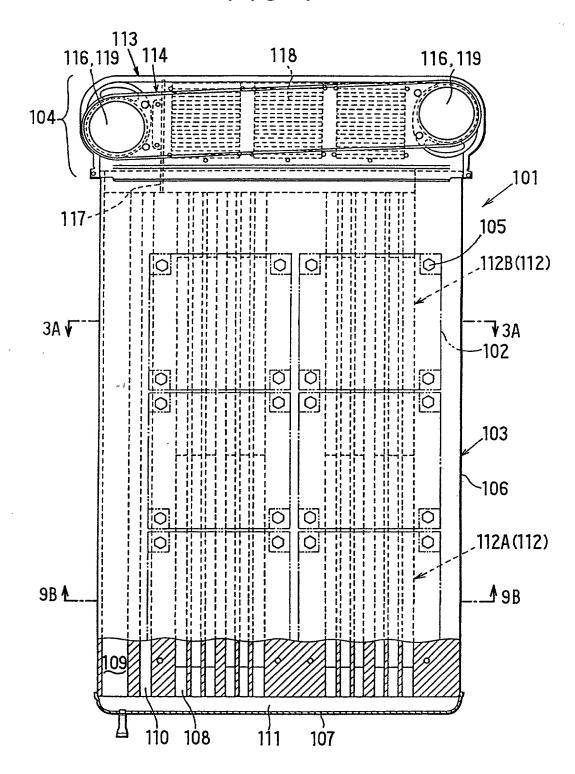
Atty. Ref. No.: 4041J0229DVA

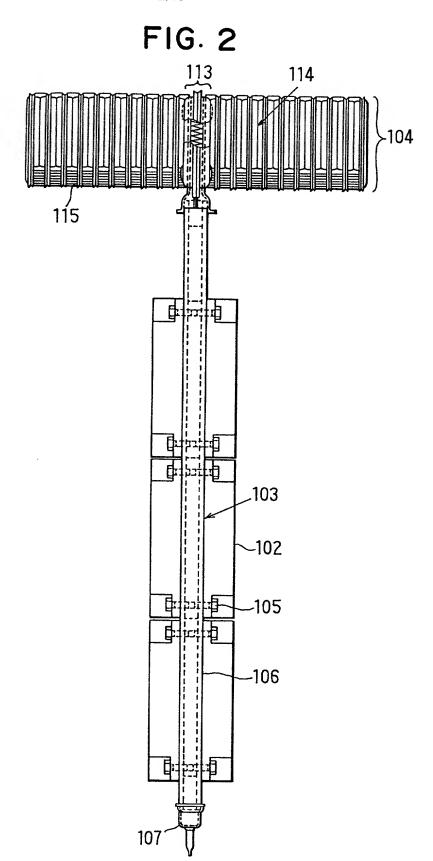
FIG. I

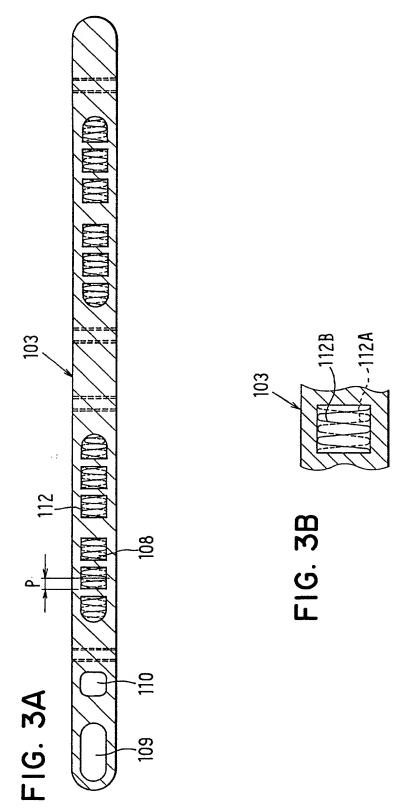


Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA





Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA

FIG. 4

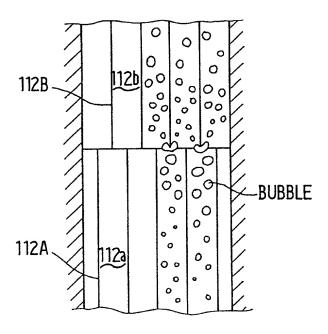
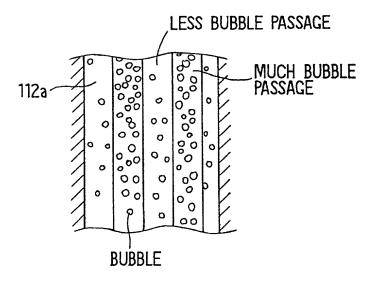


FIG. 5



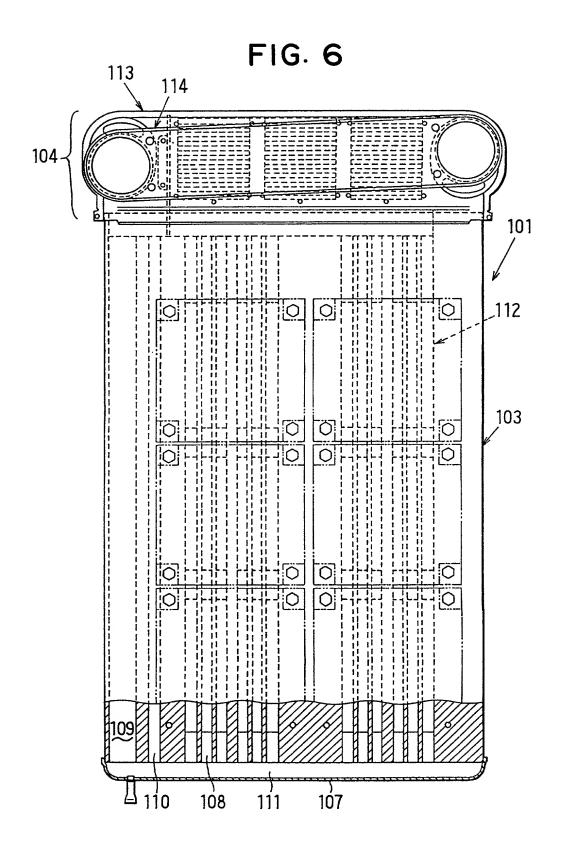


FIG. 7

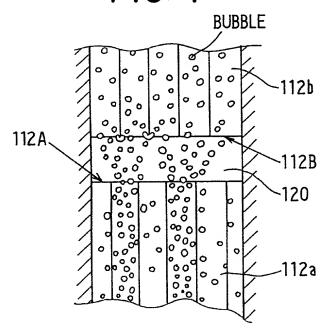
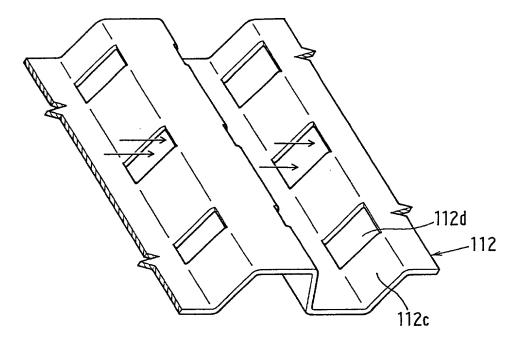
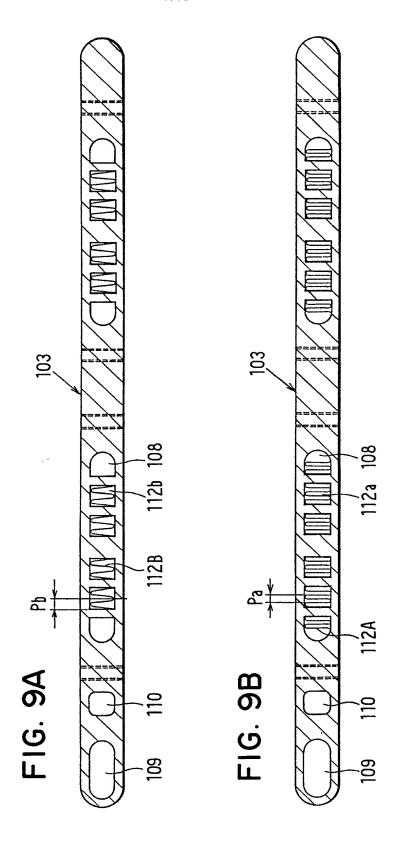


FIG. 8





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FIG. 10 PRIOR ART

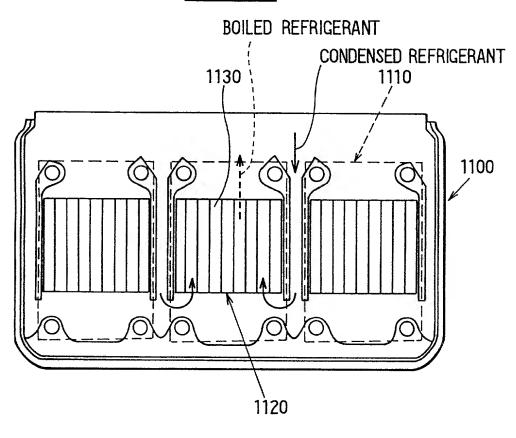
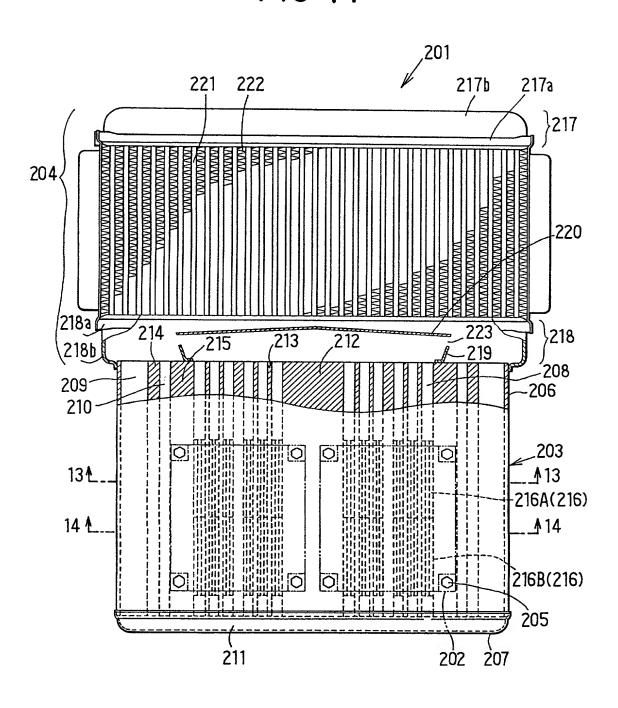


FIG. 11



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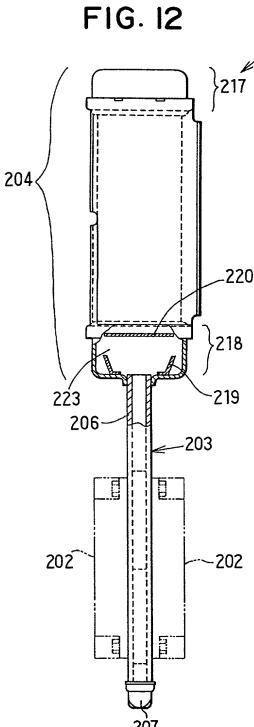
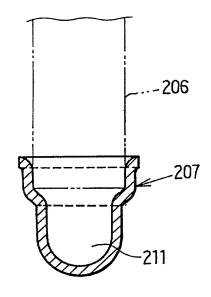
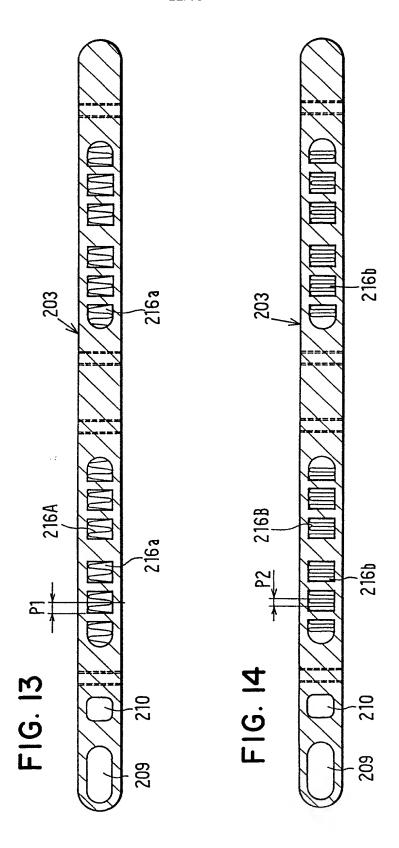


FIG. 15





Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
Michael I. Schmidt, Harness, Dieley, & Biores, Bl.C.

Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA

FIG. 16

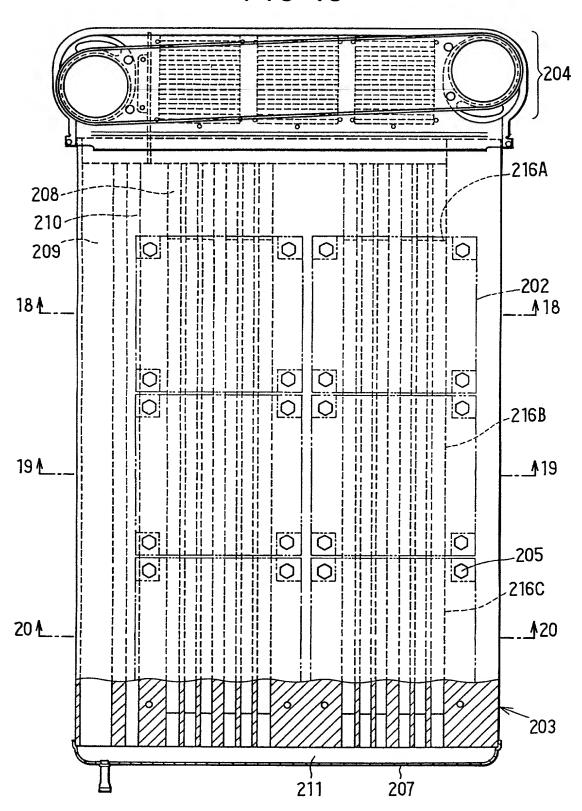
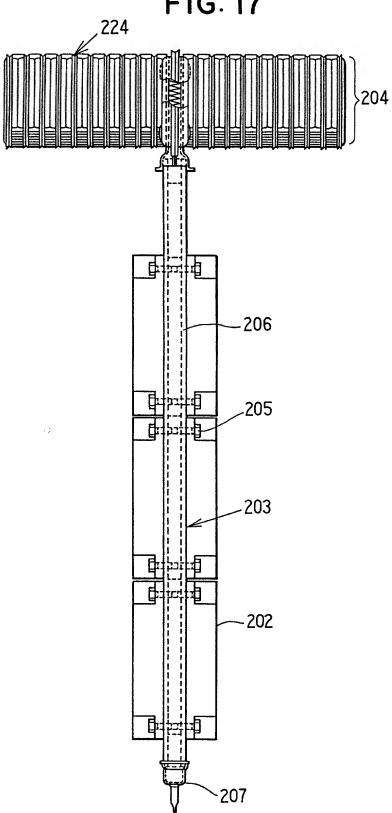
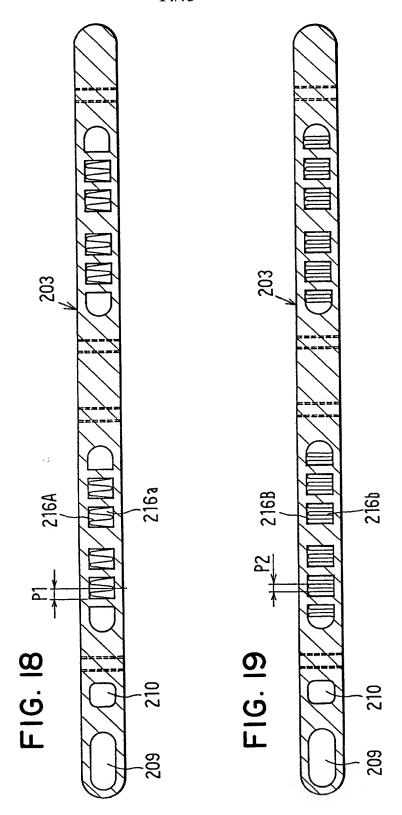
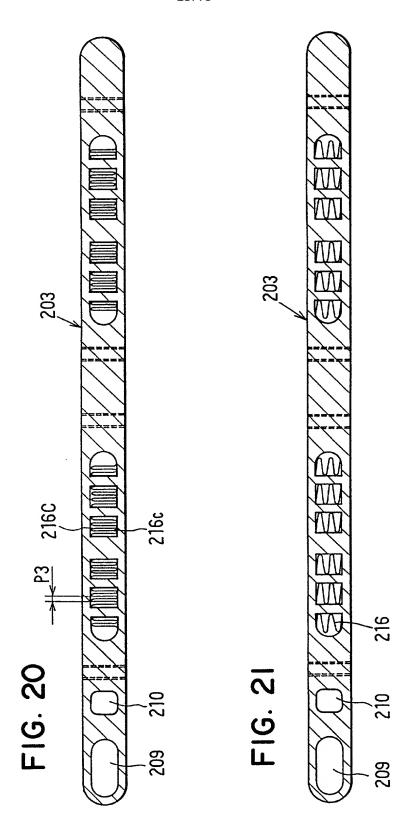


FIG. 17



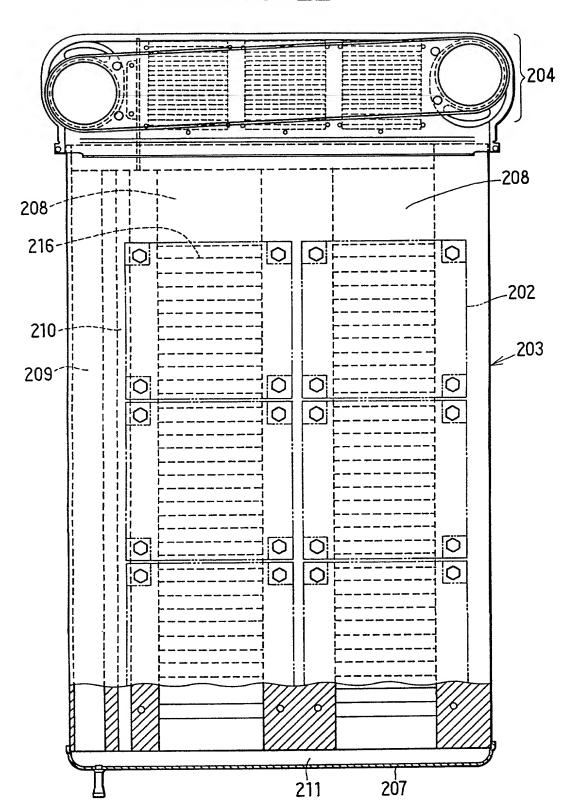


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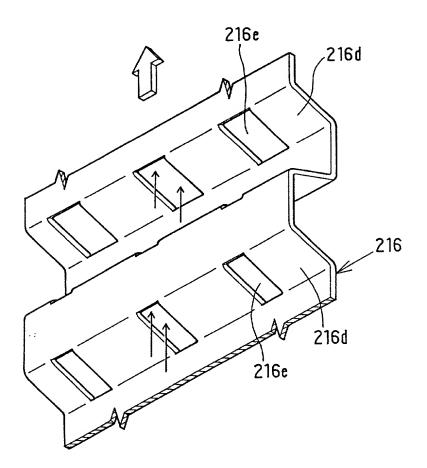
Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA

FIG. 22



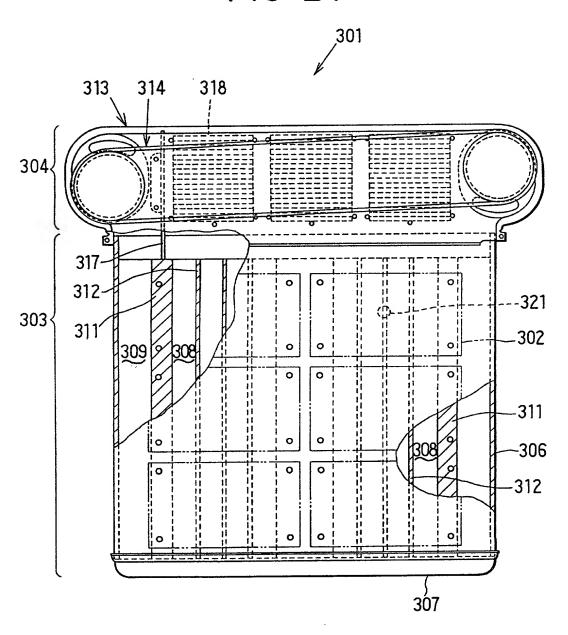
Atty. Ref. No.: 4041J0229DVA

FIG. 23



Atty. Ref. No.: 4041J0229DVA

FIG. 24

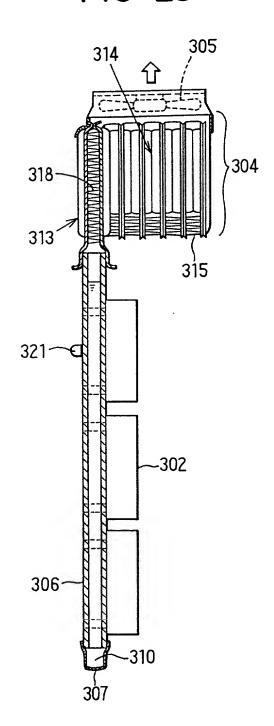


Inventor: Hiroyuki Osakabe

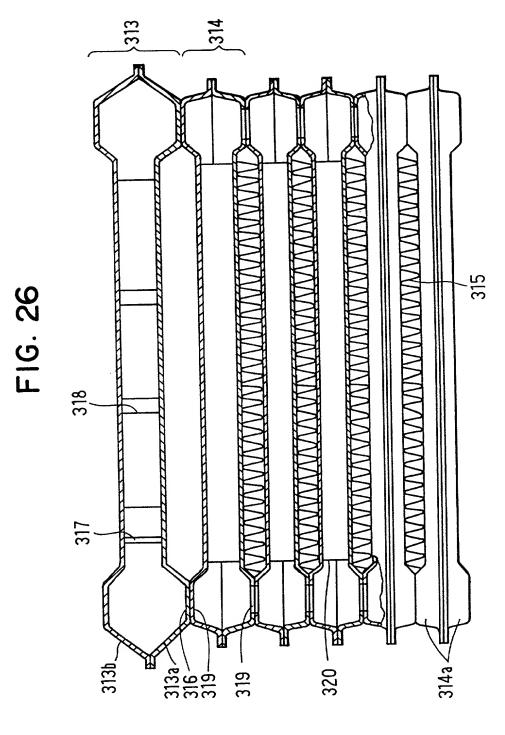
Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

FIG. 25

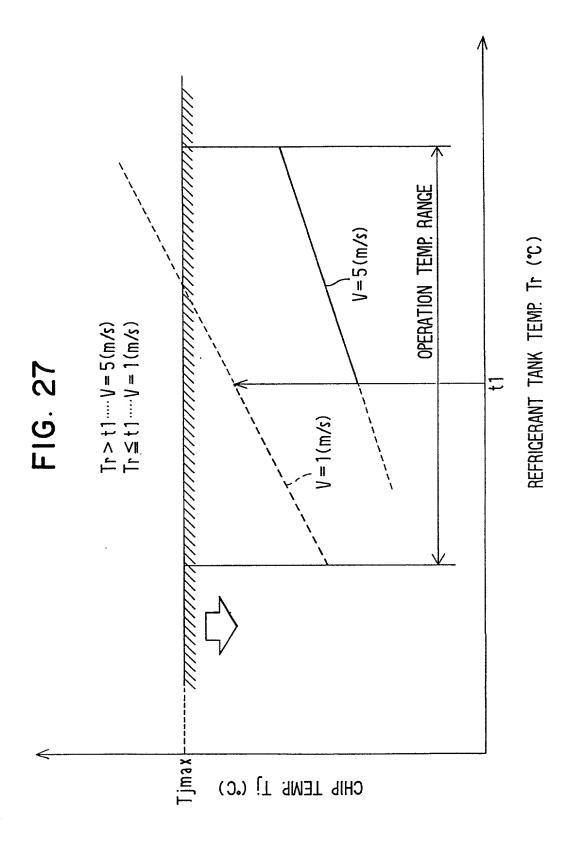


Atty. Ref. No.: 4041J0229DVA



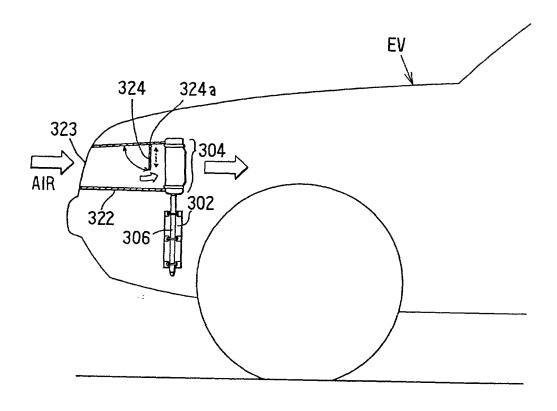
Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA



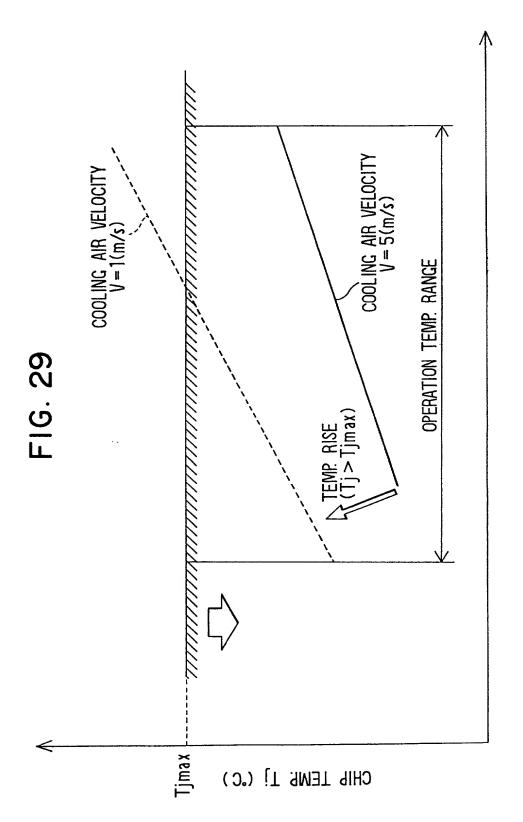
Atty. Ref. No.: 4041J0229DVA

FIG. 28



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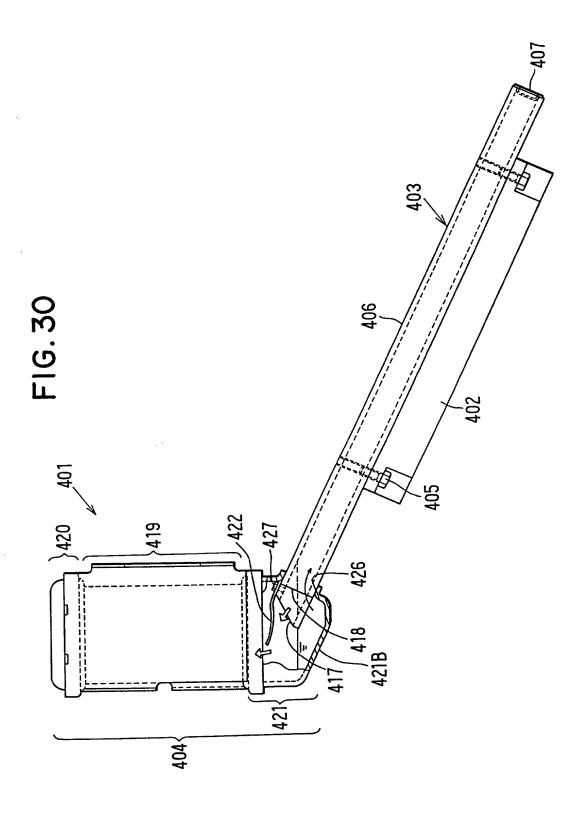
Atty. Ref. No.: 4041J0229DVA



REFRIGERANT TANK TEMP. Tr (°C)

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Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

FIG. 31

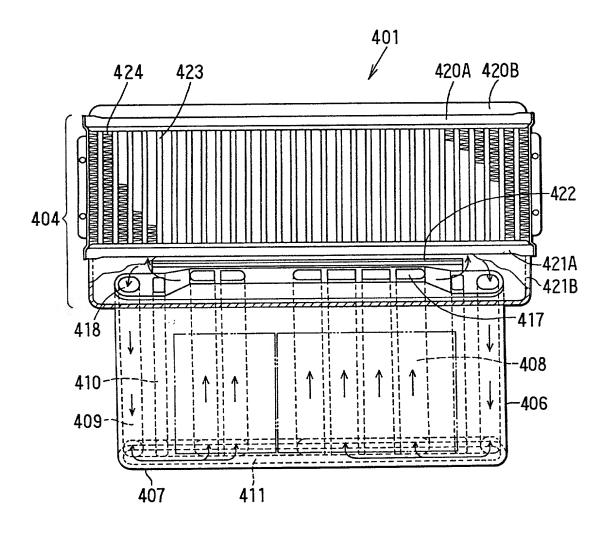
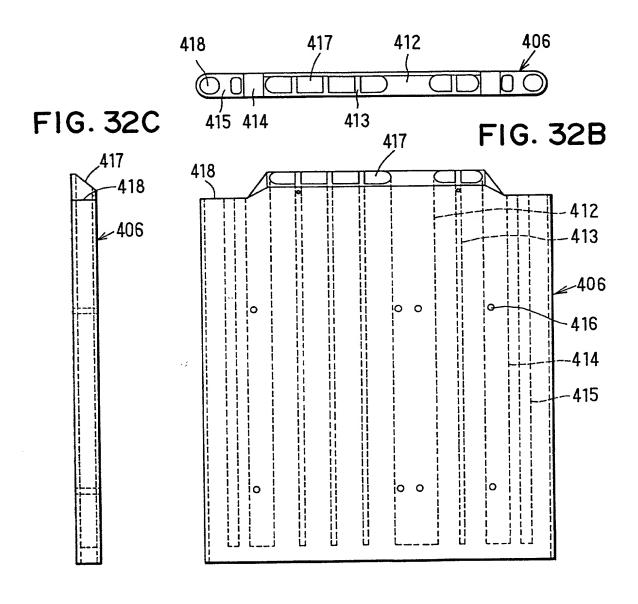


FIG. 32A



Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

FIG. 33A

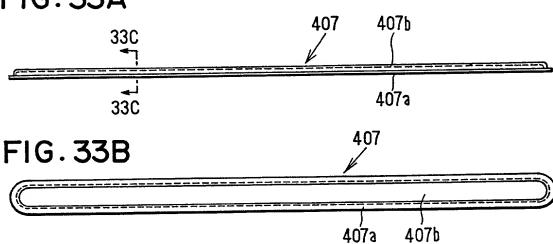


FIG.33C

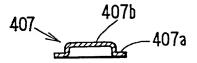
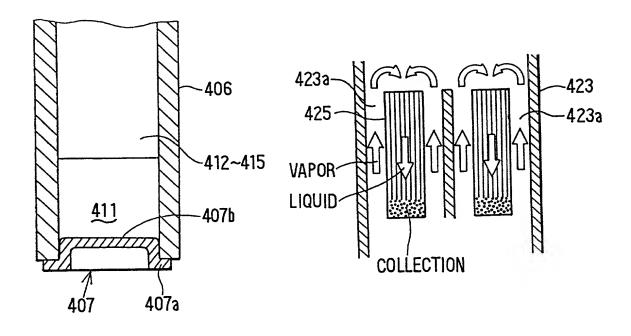
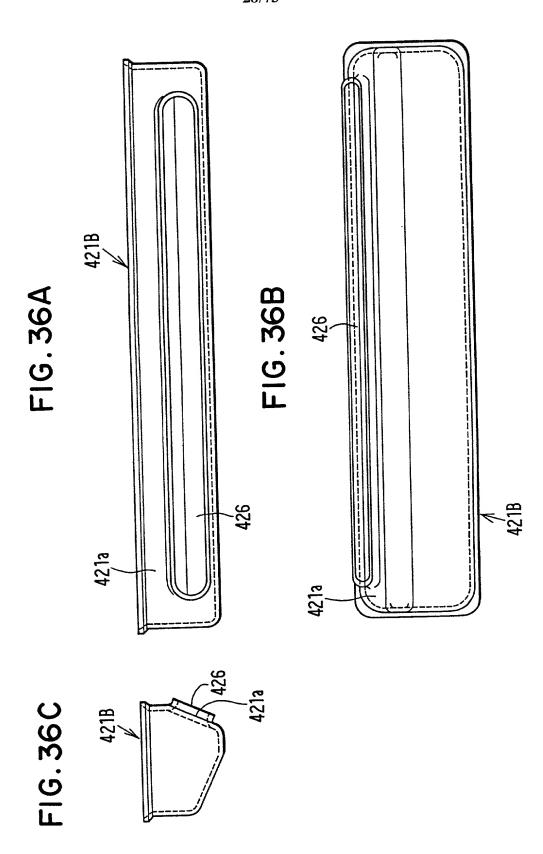


FIG. 34

FIG. 35



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Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

FIG. 37A

FIG. 37B

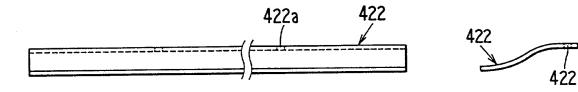
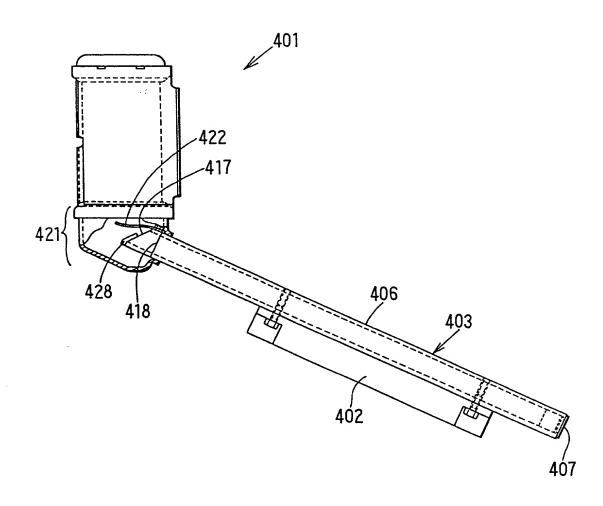


FIG. 38

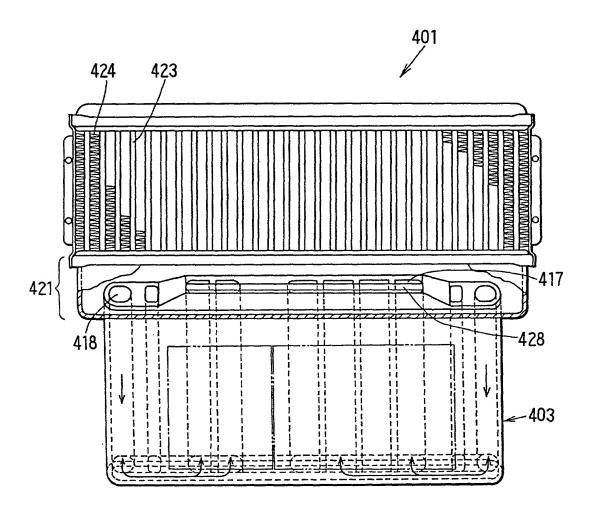


Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

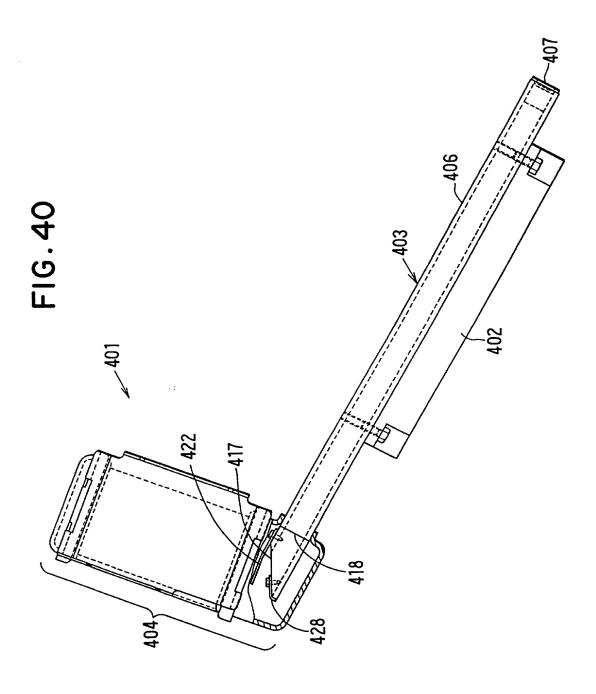
FIG.39



Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

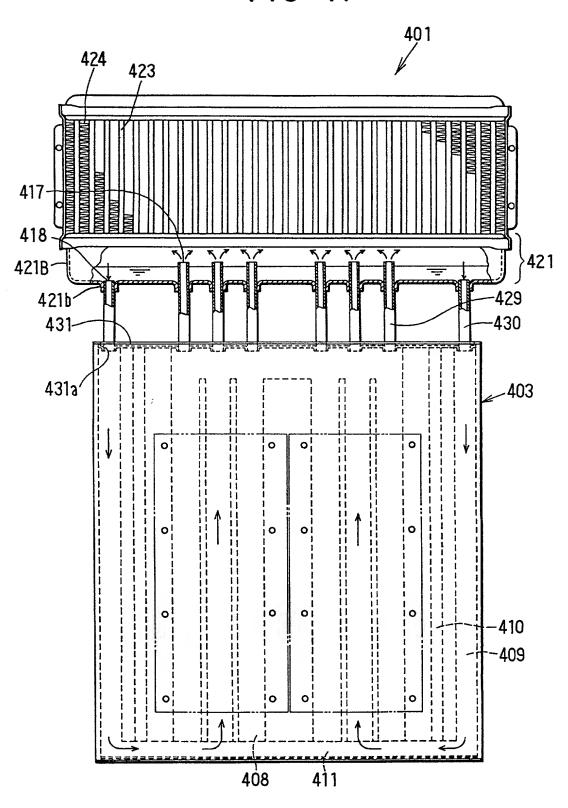


Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

FIG. 41

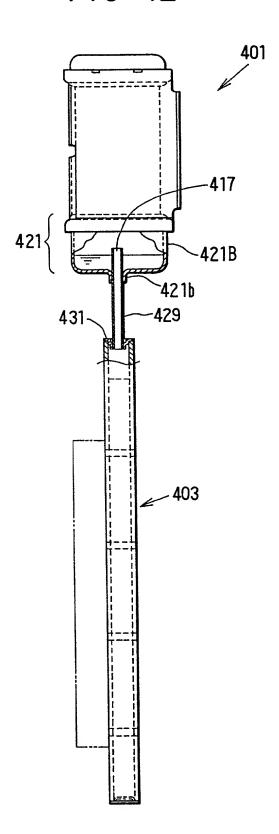


Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

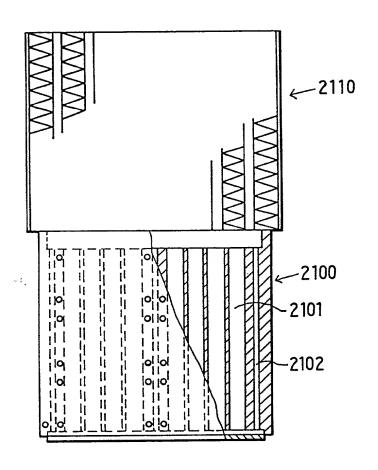
FIG.42



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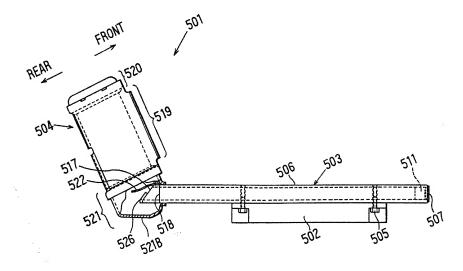
Atty. Ref. No.: 4041J0229DVA

FIG. 43 PRIOR ART



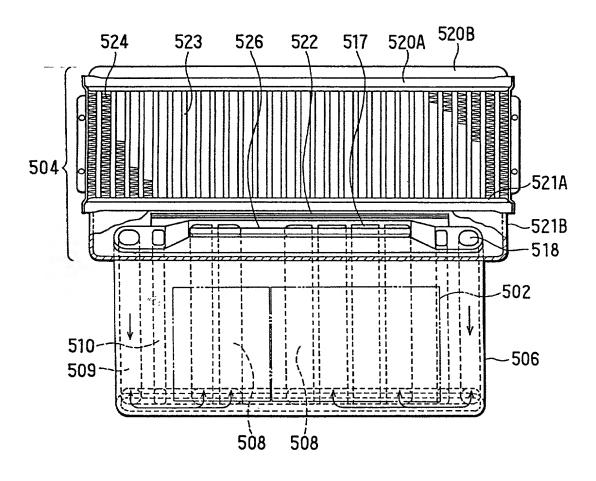
Cooling Apparaus Boiling and Condensing Refrigerant Hroyald Osakobe Pierce, PLC Hroyald Osakobe Pierce, PLC Inventor: Harness, Dickey & Pierce, PLC Inventor: Harness, 40410229DV A Title: Michael J. Schmidt. No.: 35/73

FIG.44



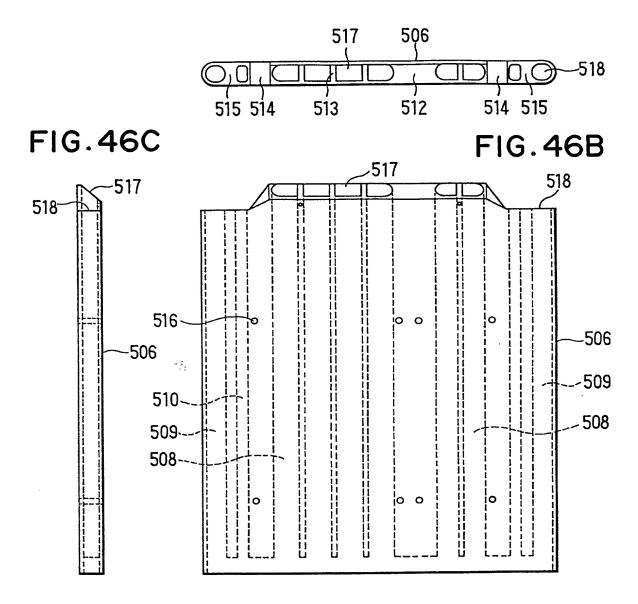
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FIG. 45



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FIG.46A



Title: Cooling Apparatus Boiling and Condensing Refrigerant
Inventor: Hiroyuki Osakabe
Michael I. Schmidt Harness, Dickey & Pierce, PLC

Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA

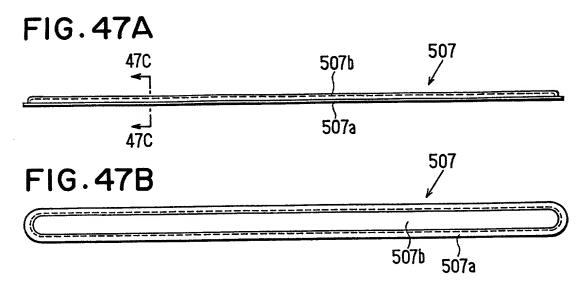
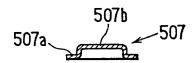
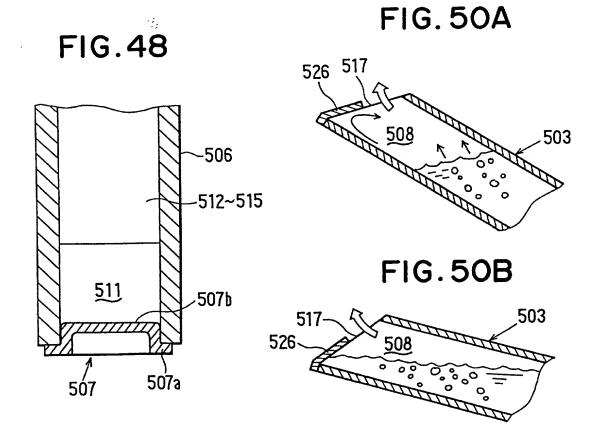
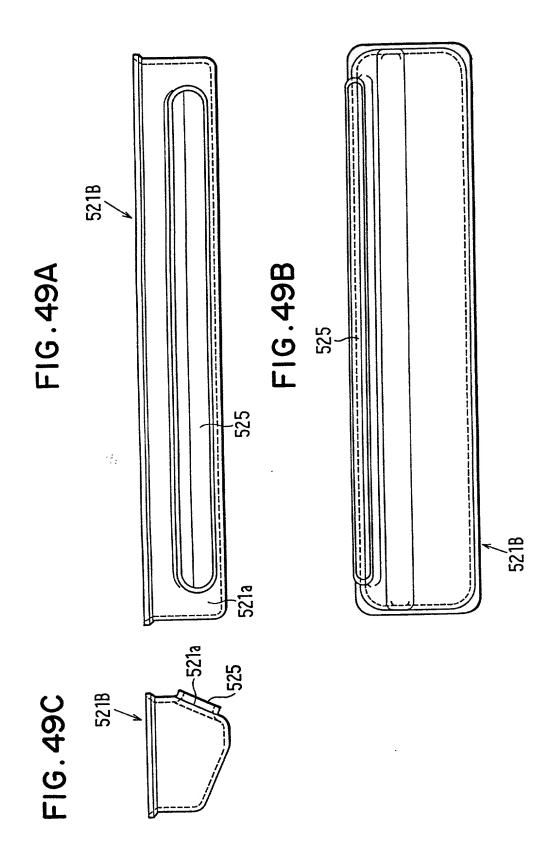


FIG.47C

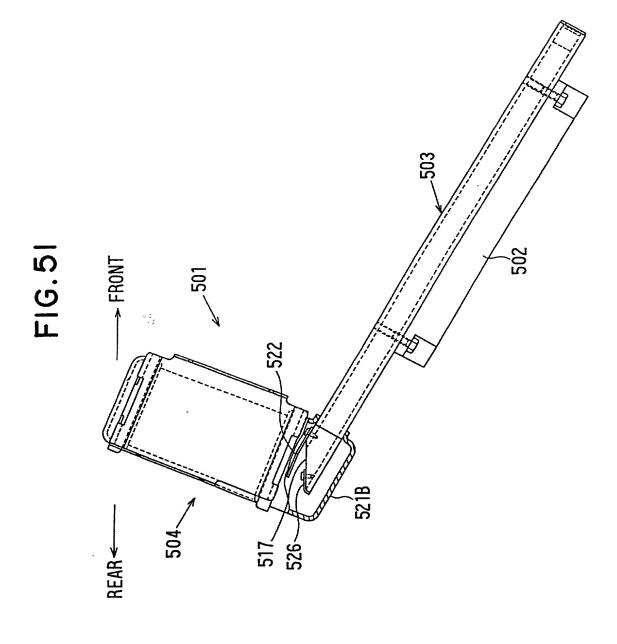




Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA



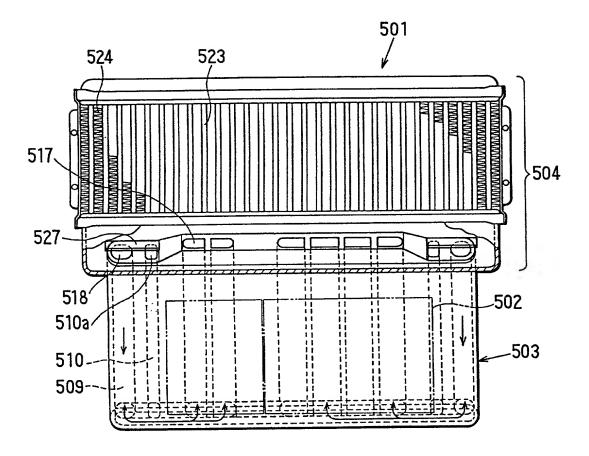
Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA



Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA

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FIG.52

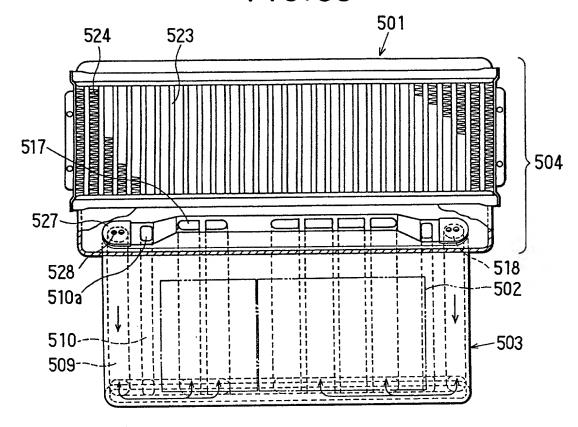


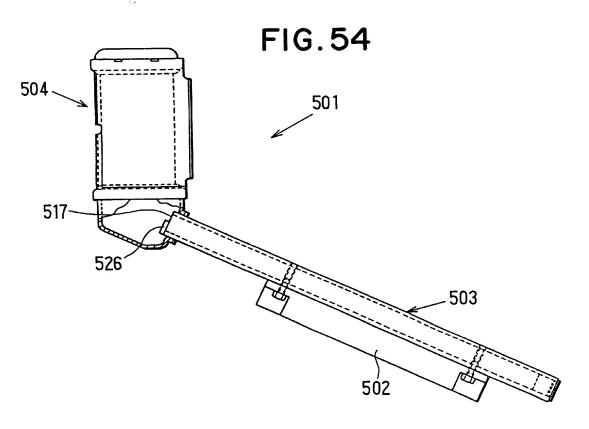
Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

FIG.53





Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

FIG. 55

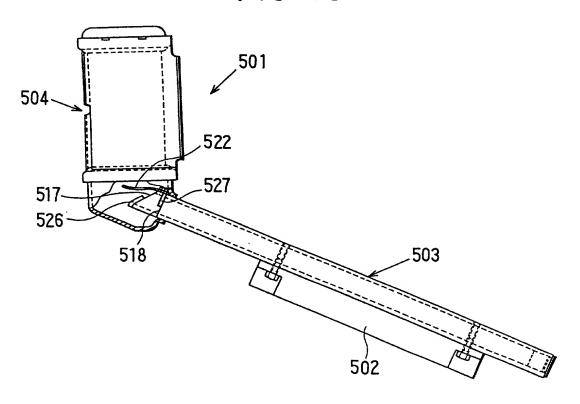
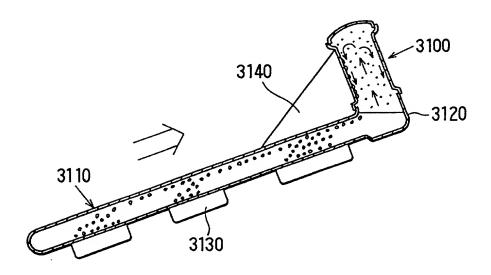


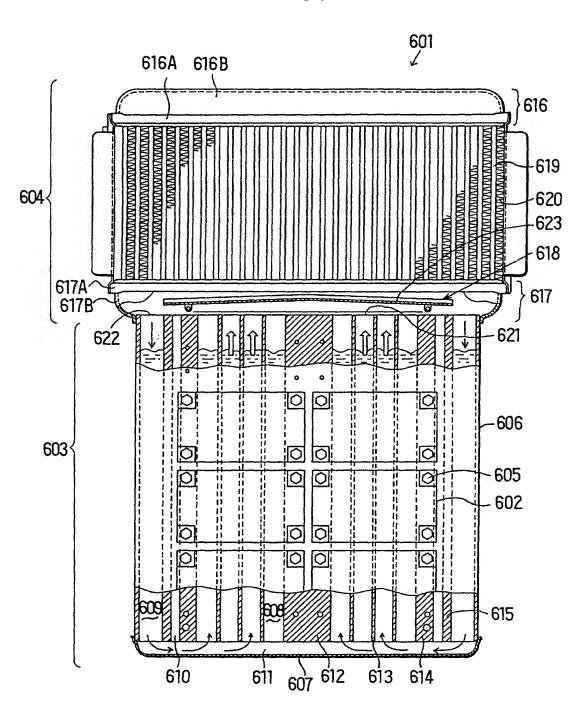
FIG. 56 PRIOR ART



Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe Michael J. Schmidt, Harness, Dickey & Pierce, PLC

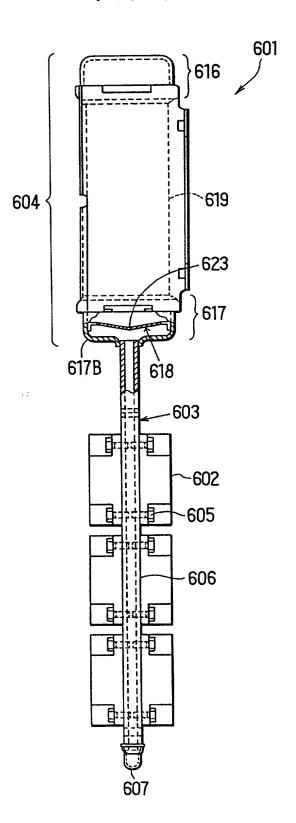
Atty. Ref. No.: 4041J0229DVA

FIG. 57



Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA

FIG. 58



Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

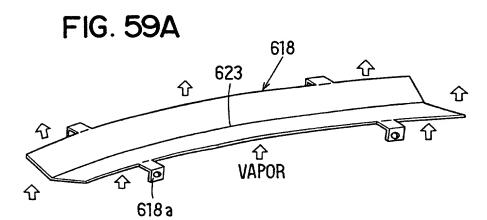


FIG. 59B

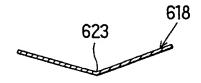
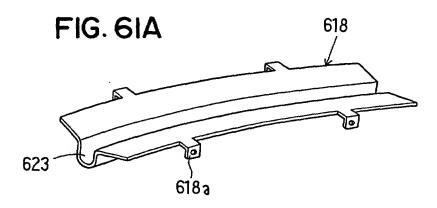
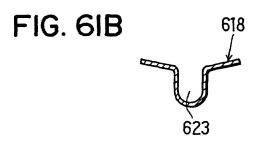


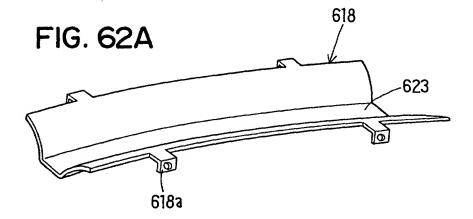
FIG. 60A
623
618
618
618

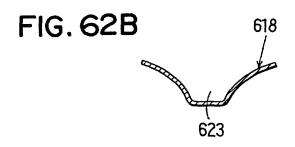
FIG. 60B 623 618

Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA









Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

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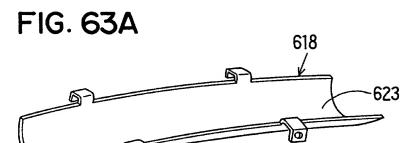


FIG. 63B

618a



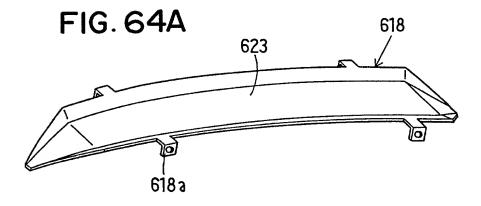


FIG. 64B

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

FIG. 65A

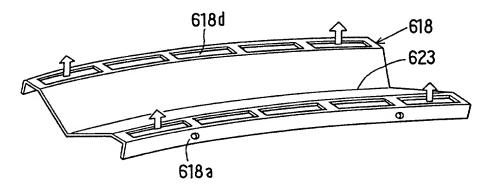


FIG. 65B

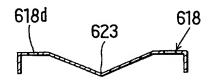
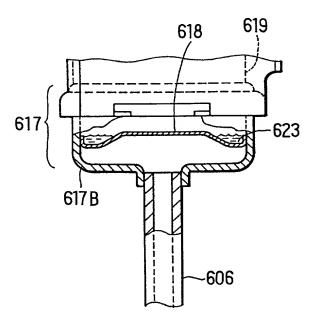
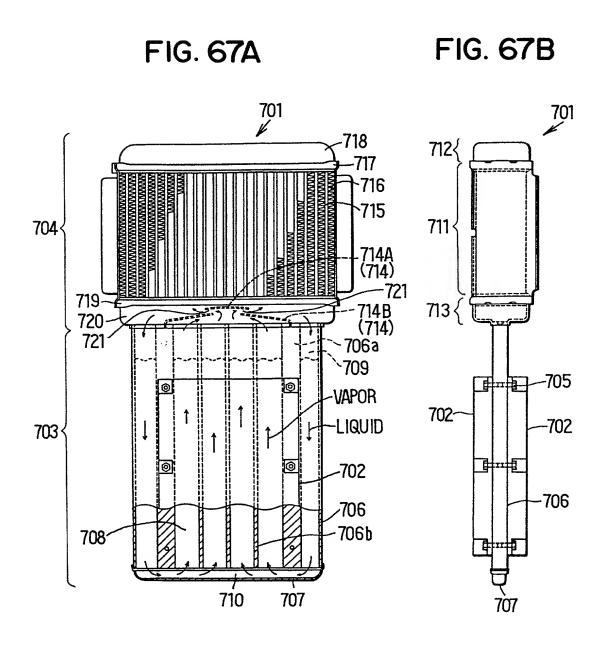


FIG. 66



Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA



Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

Atty. Ref. No.: 4041J0229DVA

FIG. 68A

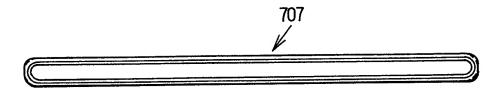


FIG. 68B

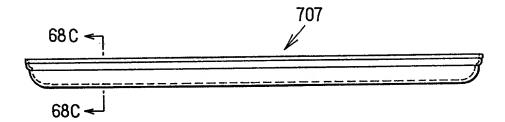
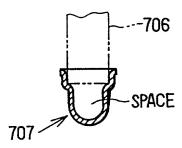
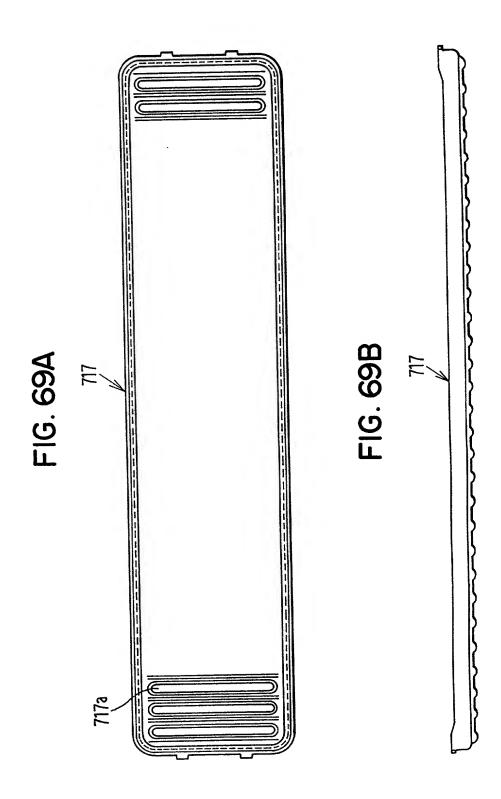


FIG. 68C

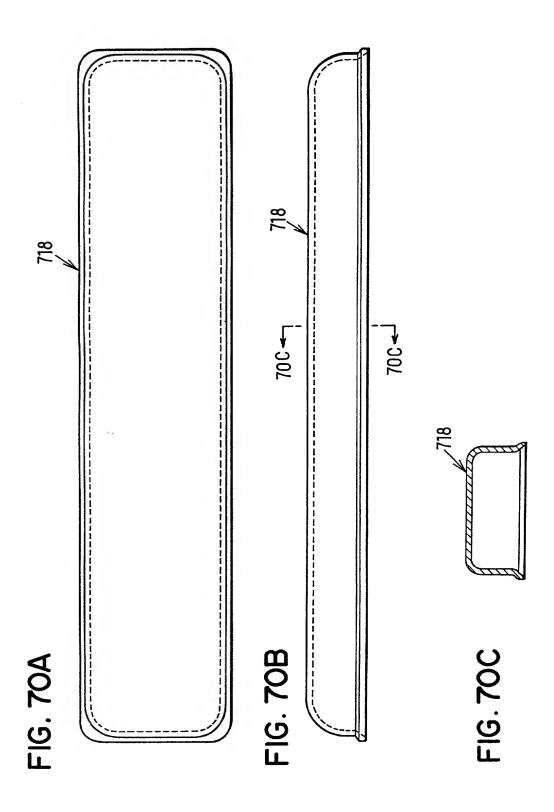


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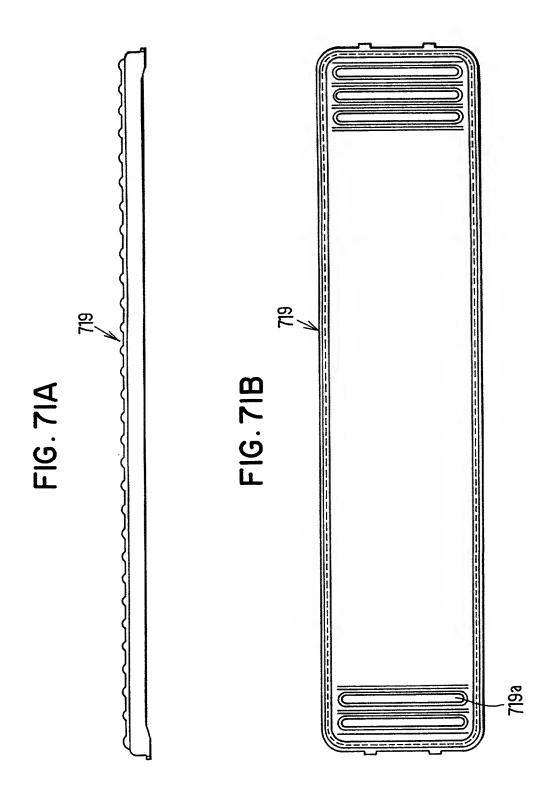


Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe Michael J. Schmidt, Harness, Dickey & Pierce, PLC

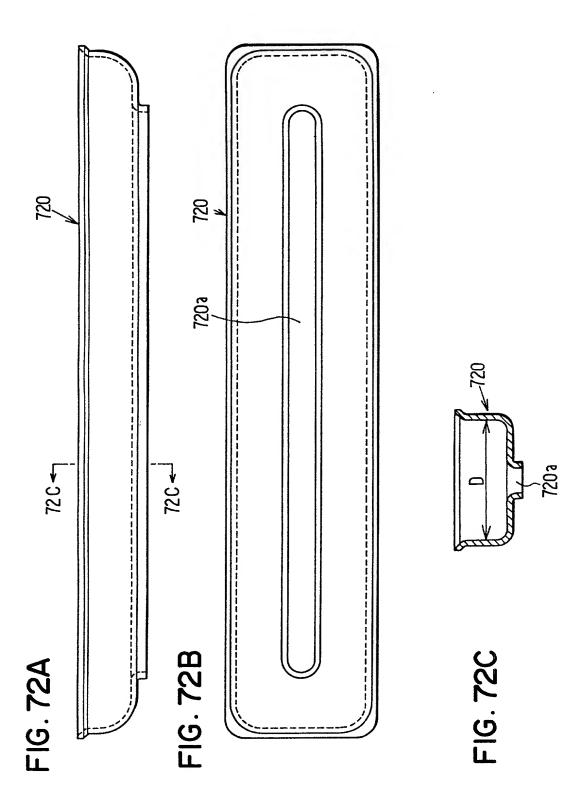
Atty. Ref. No.: 4041J0229DVA



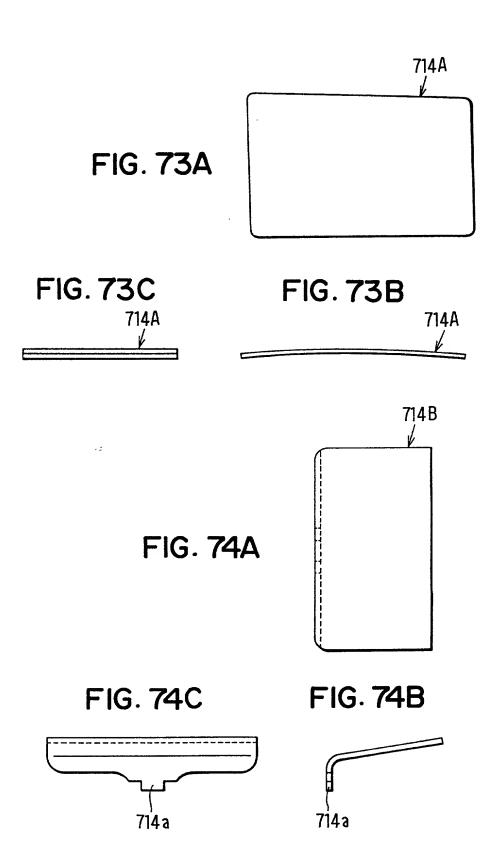
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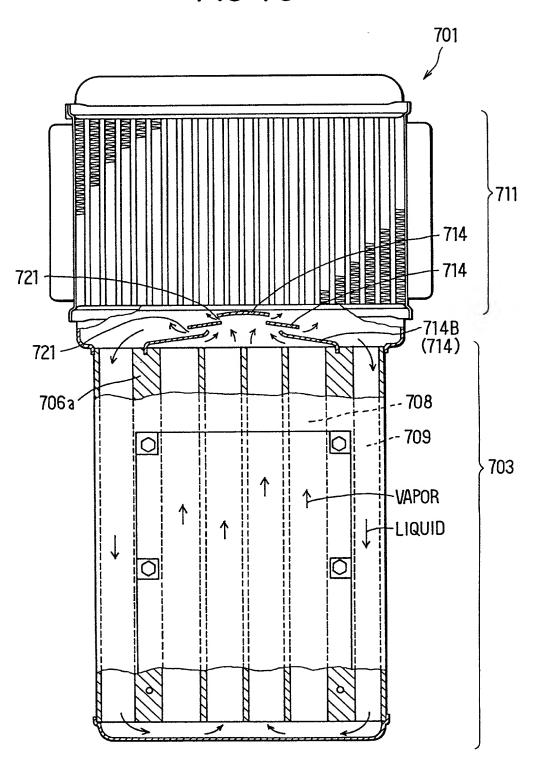


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Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA

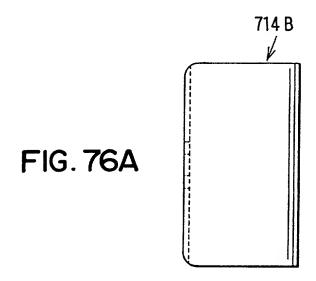
FIG. 75

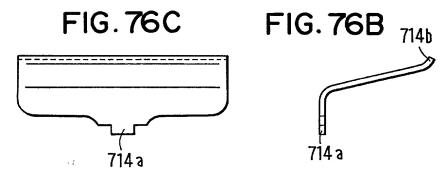


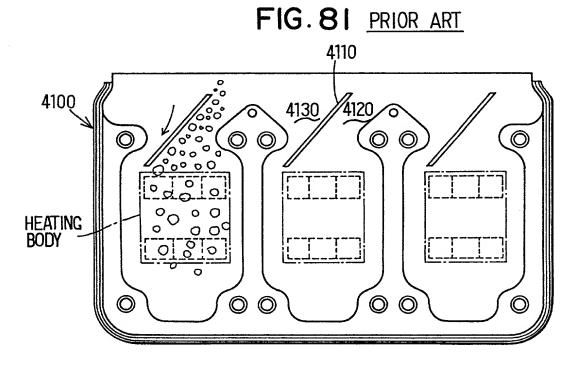
Inventor: Hiroyuki Osakabe

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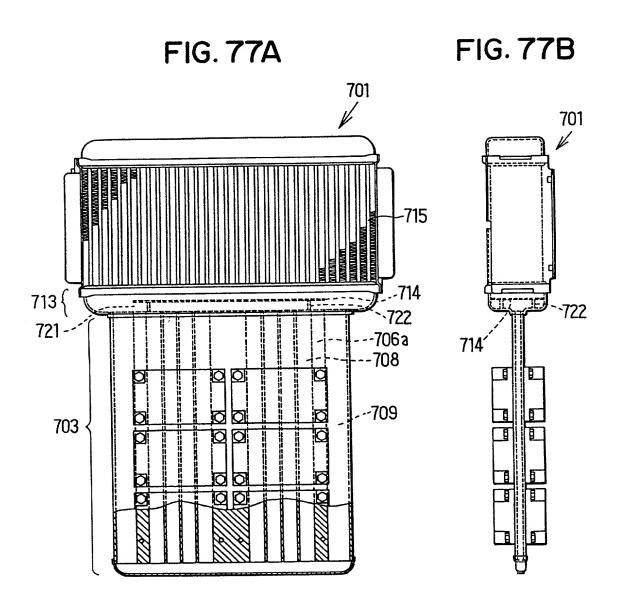
Atty. Ref. No.: 4041J0229DVA



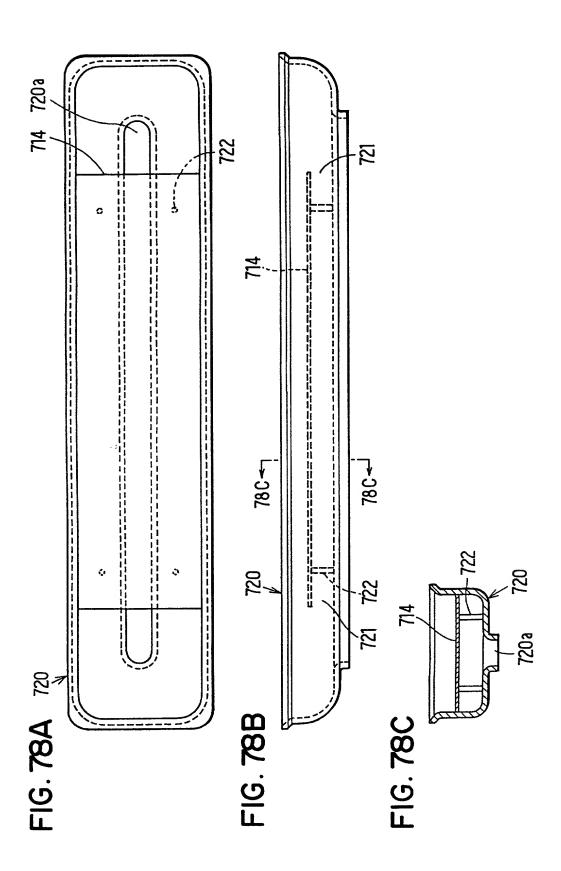




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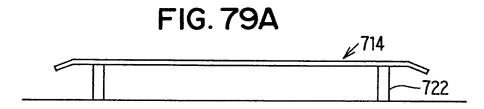
Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA

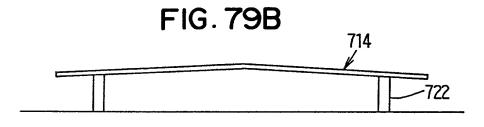


Inventor: Hiroyuki Osakabe

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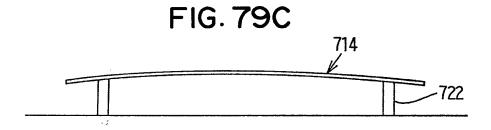
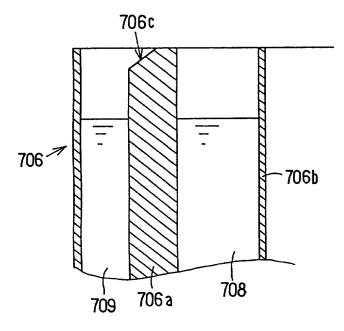


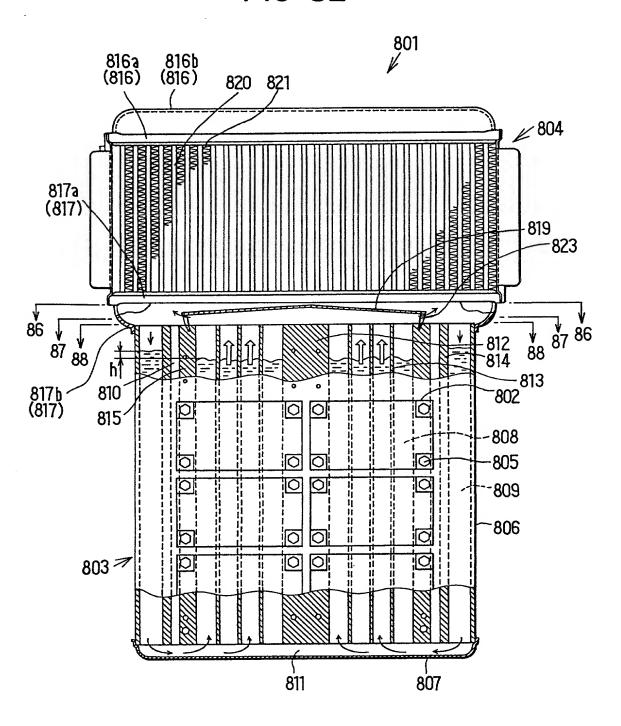
FIG. 80



Inventor: Hiroyuki Osakabe

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FIG. 82

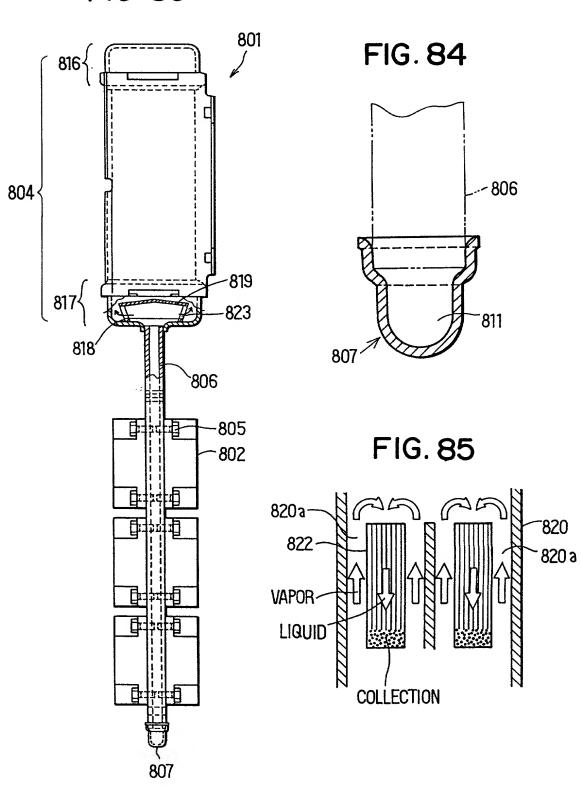


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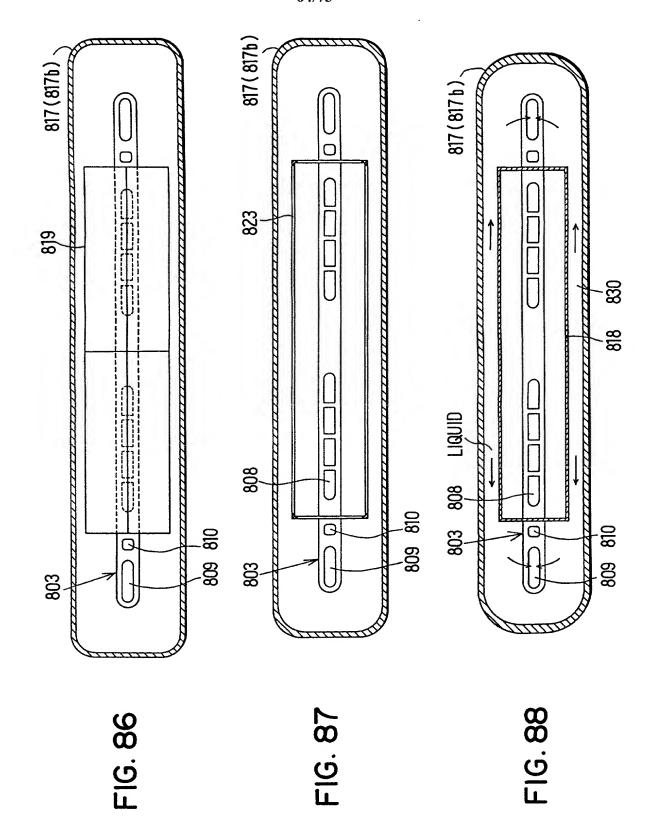
FIG. 83



Inventor: Hiroyuki Osakabe

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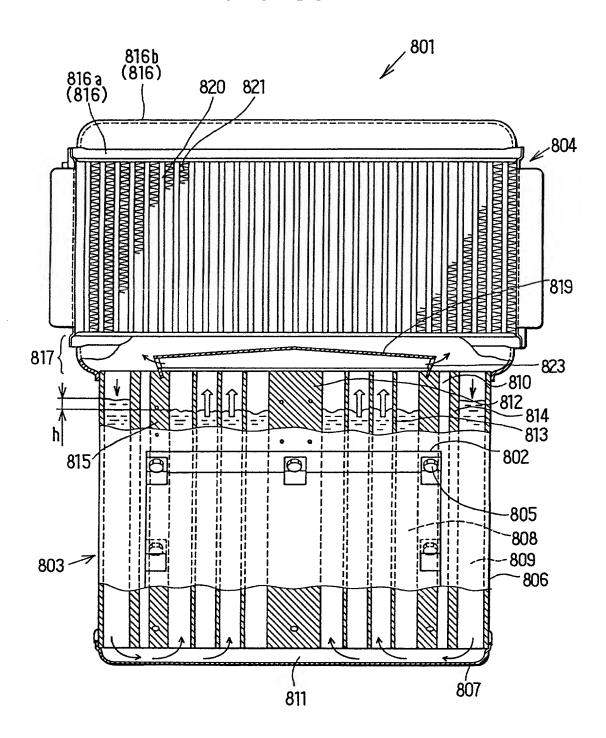


Inventor: Hiroyuki Osakabe

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FIG. 89

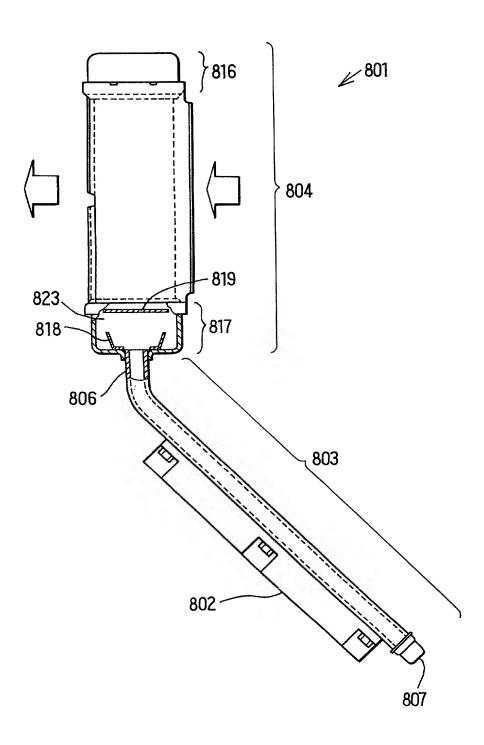


Inventor: Hiroyuki Osakabe

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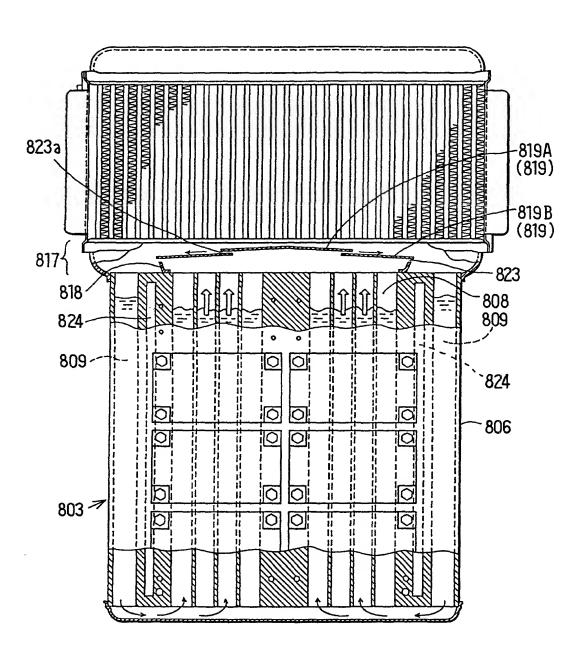
Atty. Ref. No.: 4041J0229DVA

FIG. 90



Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA

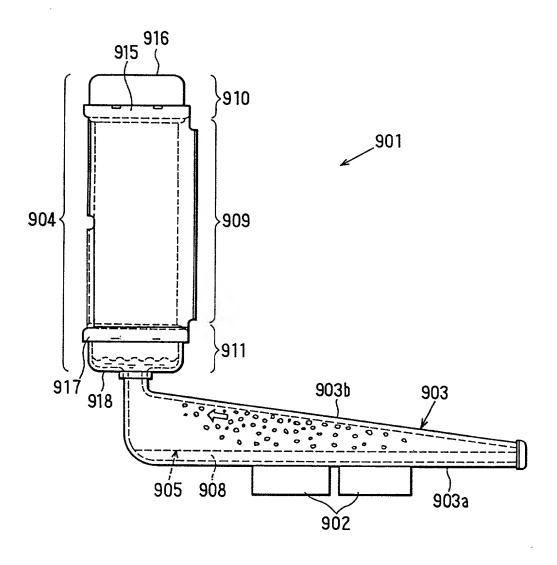
FIG. 91



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CO 15

FIG.92

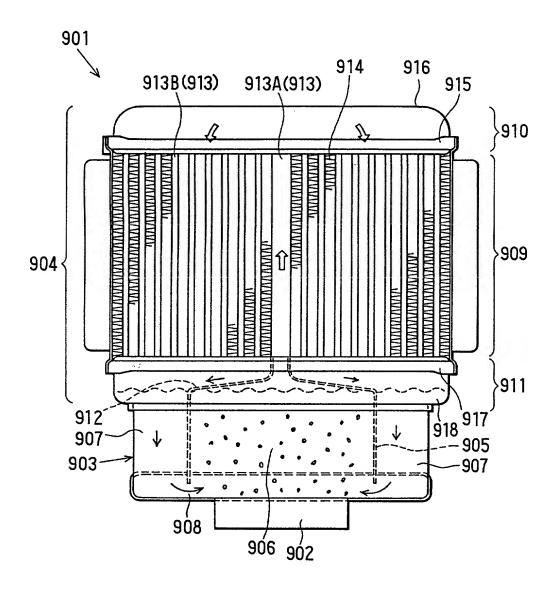


Inventor: Hiroyuki Osakabe

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Atty. Ref. No.: 4041J0229DVA

FIG.93



Inventor: Hiroyuki Osakabe

Michael J. Schmidt, Harness, Dickey & Pierce, PLC

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FIG. 94A

FIG. 94B

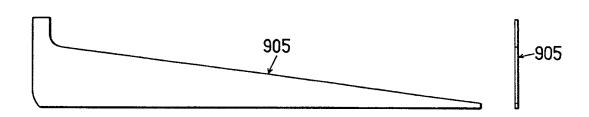
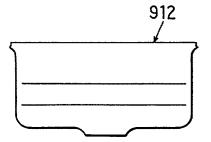
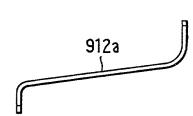


FIG. 95A

FIG. 95B





Inventor: Hiroyuki Osakabe

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Atty. Ref. No.: 4041J0229DVA

FIG.96

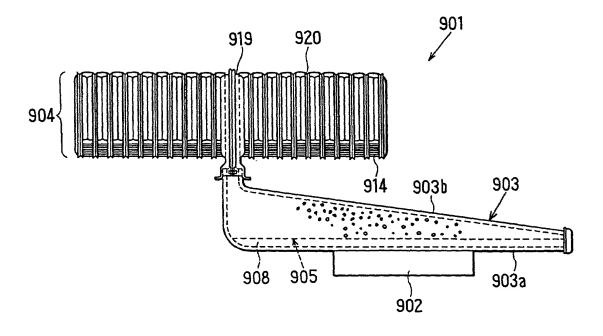
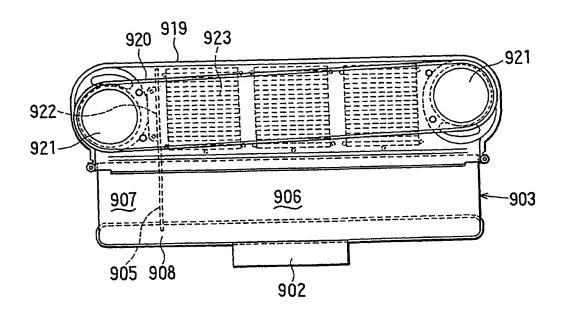
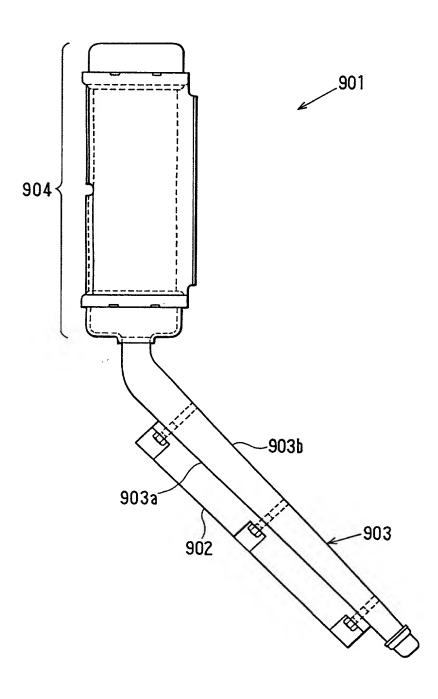


FIG.97



Title: Cooling Apparatus Boiling and Condensing Refrigerant Inventor: Hiroyuki Osakabe Michael J. Schmidt, Harness, Dickey & Pierce, PLC Atty. Ref. No.: 4041J0229DVA

FIG. 98



Inventor: Hiroyuki Osakabe

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Atty. Ref. No.: 4041J0229DVA

FIG.99

